

HOURLY DECOMPOSITION TYPE FLUORESCENCE ANALYSIS DETECTION FOR LANTHANIDE LABELLED NUCLEOTIDE

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Abstract of JP2017445

PURPOSE: To make it possible to acquire long life fluorescence for avoiding background fluorescence due to the use of intermittent exciting source and fluorescence time coupling measurement by using a lanthanide chelate labeled covalent bond nucleotide connector. CONSTITUTION: The lanthanide chelate labeled covalent bond nucleotide connector is desirably lanthanide component for lanthanide, terbium, or neodymium and particularly advantageous terbium. The lanthanide is chelate bonded to the nucleotide reacted by covalent bond to strong lanthanide chelating agent. The agent reacted with the nucleotide is arbitrary suitable chelating agent for generating lanthanide chelate of long life of nucleotide chelating agent connector stably chelate bonded to fluorescent lanthanide and covalent bonded. Thus, the fluorescence of long life which is not attenuated to the recognizable degree when the fluorescence of high quantum yield, i.e., background interference is already attenuated can be obtained.

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